Data Storage

Binary Notation

Recall Base 10

- **√** 375
- ✓ Unit, tens, hundred and 10 to the power

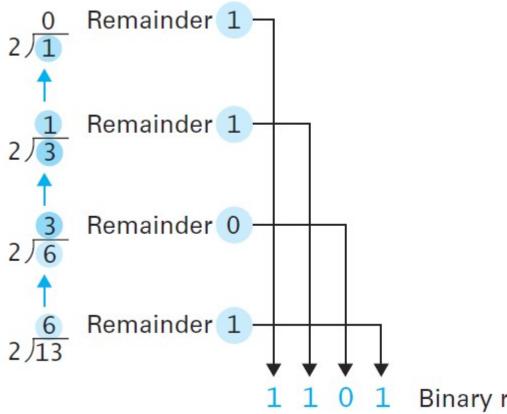
Binary

Thankses associated with each position is twice the quantity associated with the position to its right

Positive Decimal

- Step 1. Divide the value by two and record the remainder.
- Step 2. As long as the quotient obtained is not zero, continue to divide the newest quotient by two and record the remainder.
- Step 3. Now that a quotient of zero has been obtained, the binary representation of the original value consists of the remainders listed from right to left in the order they were recorded.

Applying Algorithm



Binary representation

Power Method Revision

27	2 ⁶	2 ⁵	24	2 ³	2 ²	21	2 º	Represent ing
12 8	6 4	32	16	8	4	2	1	
1	0	0	0	0	0	1	1	131
0	1	0	1	1	0	0	0	88
0	0	0	0	1	1	1	1	15

Summary

Binary
Notation
Notation
Division
Method
✓ Power Method